PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference pc-21017809	FOR FURTHER ACTION S∞ Form PCT/IPEA/416								
International application No.	International filing date (day/month/year)	Priority date (day/month/year)							
PCT/SE2004/001979	22-12-2004	22-12-2003							
International Patent Classification (IPC) o	r national classification and IPC								
See Supplemental Box									
Applicant									
Astra Tech AB et al									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This REPORT consists of a total of	of 5 sheets, including this cover	sheet.							
This report is also accompanied by ANNEXES, comprising:									
	and to the International Bureau) a total of	sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	supersede earlier sheets, but which this Author								
beyond the di Supplemental	sclosure in the international application as filed Box.	I, as indicated in item 4 of Box No. I and the							
-									
b. [] (sent to the Internatio	onal Bureau only) a total of (indicate type and n	and/or tables related thereto, in electronic							
form only, as indicate	ed in the Supplemental Box Relating to Sequen								
Administrative Instru	ctions).								
4. This report contains indications re	elating to the following items:								
Box No. I Basis of	f the report								
Box No. II Priority									
Box No. III Non-est	ablishment of opinion with regard to novelty, i	nventive step and industrial applicability							
Box No. IV Lack of	unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
Box No. VI Certain	documents cited								
Box No. VII Certain	defects in the international application								
Box No. VIII Certain	Box No. VIII Certain observations on the international application								
Date of submission of the demand	Date of completion	of this report							
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24-10-2005	07-04-2006								
Name and mailing address of the IPEA/SE	Authorized officer								
Patent- och registreringsverket									
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Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001979

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Cover sheet

International patent classification (IPC)

A61L 29/14 (2006.01) **A61M 25/00** (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001979

Box	No. I	Basis of the report				
1.	With regard to the language, this report is based on:					
the international application in the language in which it was filed a translation of the international application into which is the language of a translation furnished for the purposes of: international search (Rules 12.3(a) and 23.1(b))						
		publication of the international application (Rule 12.4(a))				
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))				
2.	furnis	With regard to the elements of the international application, this report is based on (replacement sheets which have been urnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	\boxtimes	the international application as originally filed/furnished				
		the description:				
		pages as originally filed/furnishe				
		pages* received by this Authority on	-			
		pages* received by this Authority on	-			
		the claims:				
		pages as originally filed/furnishe				
		pages* as amended (together with any statement) under Article pages* received by this Authority on				
		pages* received by this Authority on received by this Authority on	-			
			-			
	Ш	the drawings:				
		pages as originally filed/furnishe pages* received by this Authority on				
		pages* received by this Authority on	_			
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	-			
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not a made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (170.2(c)).				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
*	If item	4 applies, some or all of those sheets may be marked "superseded."				

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AP3 Rec'd PCT/PTO 22 JUN 2008

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001979

		under Article 35(2) with regard to novelty, inventive step or industrial applicability; ations supporting such statement			
1.	Statement				
	Novel	ity (N)	Claims Claims	1-35	YES
			Claims		NO
	Inven	tive step (IS)	Claims	1-35	YES
			Claims		NO NO
	Indust	trial applicability (IA)	Claims	1-35	YES
			Claims		NO

2. Citations and explanations (Rule 70.7)

The claimed invention

The claimed invention relates to the problem concerning providing low-friction properties to outer surfaces of catheters.

The problem is solved by using very high concentration of osmolality-increasing compound for the wetting fluid. It is especially stated that the concentration of osmolality-increasing compound should be in the line with the normal saline concentration in urine and should exceed 600 mOsm/dm2.

Prior art

In the International Search Report the following documents were cited:

D1: WO 0 047 494

D2: Spinal Cord, vol 35, no 3, 1997, Waller et al: "The importance of osmolality in hydrophilic urethral catheters: a crossover study"

D3: Spinal Cord, vol 38, 2000, Lundgren et al: "The importance of osmolality for intermittent catheterization of the urethra"

D4: WO 9 416 747

D5: WO 9 858 989

D6: Invist Radiol. 1988-09-23, Slovak et al: "Current contrast media and ioxilan comparative evaluation of vascular pain by aversion conditioning"

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PCT/SE2004/001979

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: BOX $\,V\,$

D1 describes a urethral catheter having a coated surface which exhibits reduced friction when wetted with a wetting liquid. It is in D1 stated that the wetting liquid may contain an osmolality-increasing agent such as sodium chloride. (See abstract and claims 19-20.)

D2 describes risks of urethral trauma after catheterisation with urethral catheters. It is studied how osmolality in the outer layer of the catheters effects the level of friction and the risk of trauma. In D2 the conclusion is made that the osmolality of the outer layer of a hydrophilic catheter should equalise the osmolality of human urine to cause minimum trauma. This is in one of the studied catheters done by in the outer layer adding sodium chloride that, when soaked in water, increases the osmolality to 800 mOsm/kg, as in human urine. The osmolality values measured for the catheters in D2 are in the interval 800-1150 mOsm/kg. (See the whole article. Especially abstract; page 230, left column, line 2-54; page 231, right column, line 7-19; page 232, right column, line 6-27.)

Documents D3-D6 represent the prior art. The claimed invention is not considered to be anticipated by these documents.

Statement of reason

The cited documents represent the general state of the art. The invention defined in claims 1-35 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed catheter assembly having a wetting fluid comprising an osmolality-increasing compound concentration exceeding 600 mOsm/dm³, wherein this osmolality-increasing concentration improves stability and water retention of the catheter.

Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-35 is novel and is considered to involve an inventive step. The invention is industrially applicable.